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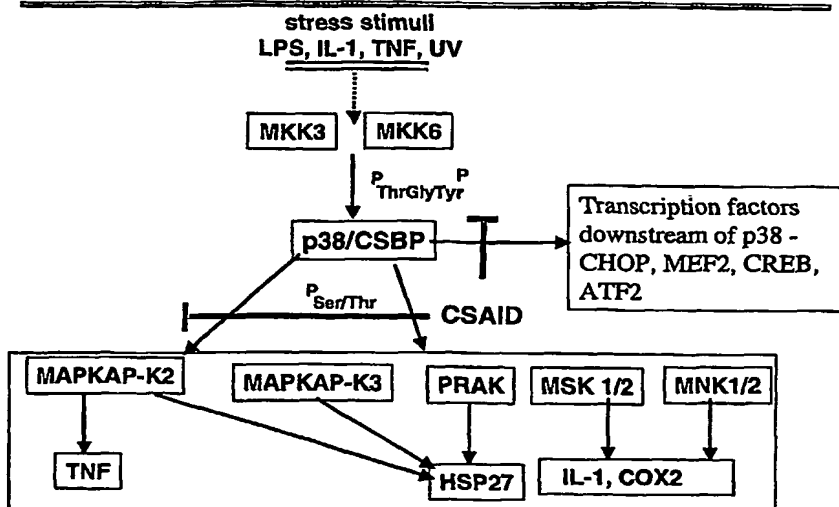
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PYRROLO[2, 3-d]PYRIMIDINE-4-YL AND PURIN-6-YL UREA COMPOUNDS

p38/CSBP Kinase Pathway



(57) Abstract: Novel substituted
pyrrolo[2.3-d]pyrimidin-4-yl
compounds and compositions for
use in therapy as CSBP/p38 kinase
inhibitors.

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WO 2004/021979 A3

INTERNATIONAL SEARCH REPORT

International application No.:

PCT/US03/26508

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/52; 31/522; C07D 473/16, 473/18, 473/24, 473/34

US CL : 544/276, 277; 514/263.37, 263.38, 263.4

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 544/276, 277; 514/263.37, 263.38, 263.4

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS Online**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0058667 A1 (CASTELHANO et al) 16 May 2002 (16.05.2002). See species at paragraphs 0239-0245, 253-256, compound 800 on page 52, 803-807 on page 53, 900-903 on page 54 (especially 902).	14-18, 20, 23-25
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A		1-13, 19
Y	HESS et al. "7-Deazaadenines Bearing Polar Substituents: Structure-Activity Relationships of New A1 and A3 Adenosine Receptor Antagonists". J. Med. Chem. 2000 Vol. 43, No. 24, pp 4636-4646. See pages 31, 41-45, 9-17, 29, 30.	14-18, 20, 23-25
Y, P	US 6,680,324 B2 (CASTELHANO et al) 20 January 2004 (20.01.2004). See column 19, compound 803.	14-18, 20, 23-25
Y	WEST et al. "2-Alkyl(aryl)- and 2, 7-Dimethyl-4-substituted Aminopyrrolo[2, 3-d] pyrimidines". J. Organic Chemistry. 1961, Vol. 26, pages 3809-12. See last compounds in Tables 3 and 4.	14, 23-25
X	US 3,037,980 (HITCHINGS et al) 5 June 1962 (05.06.1962). See column 5, compound 43.	14, 20-25
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Y		18, 19



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Continuation of Item 4 of the first sheet:

Title Nonspecific New Title:

Pyrrolo [2, 3-d] pyrimidine-4-y1 and purin-6-y1 Urea compounds

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

Group I, claim(s) 1-9 (part), 10, 11-25 (part), drawn to Y=C.

Group II, claim(s) 1-9 (part), 11-25 (part), drawn to Y=N.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature is the heterocyclic core. Group I is drawn to pyrrolopyrimidines; Group II is drawn to purines. It is the core which is responsible for the pharmaceutical activity. These are structurally dissimilar as the cores differ in the number of hetero atoms present.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26508

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☒ Claim Nos.: 26
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:
Please See Continuation Sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-9 (part), 10, 11-25 (part)

Remark on Protest

☐
☐

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.